

Patent Abstracts of Japan

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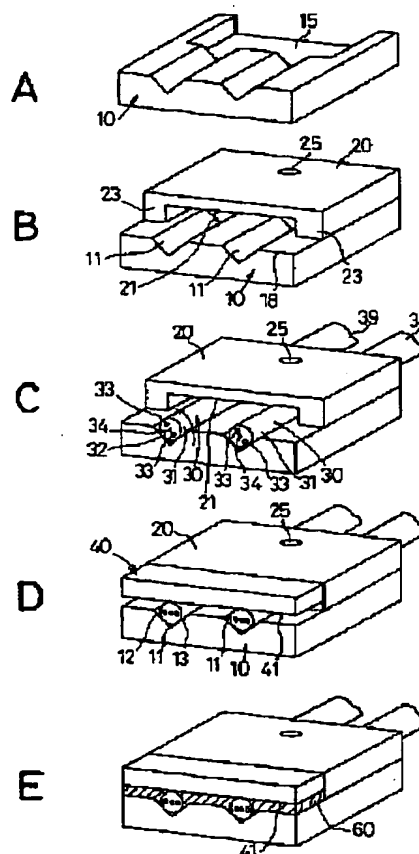
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TITLE : OPTICAL FIBER ARRAY, PARTS FOR  
ARRAYING THE SAME AND  
PRODUCTION OF OPTICAL FIBER  
ARRAY



ABSTRACT : PURPOSE: To provide the optical fiber array which does not require the use of X-axis and Y-axis optical stages at the time of aligning polarization planes by rotating the polarization plane-maintaining optical fibers, the parts for arraying the optical fiber array and the process for production of the optical fiber array.

CONSTITUTION: A guide 20 for optical fibers is fixed onto a upper plane part 18 of a V-groove base plate 10. The polarization plane-maintaining optical fibers 30 are then inserted into the V-groove base plate 10 from behind and optical fiber exposed parts 31 are placed in the V-grooves 11. The polarization planes of the polarization plane-maintaining optical fibers 30 are aligned by rotating the polarization plane-maintaining optical fibers 30 with the space between the V-groove base plate 10 and the rear surface 21 of the guide 20 for the optical fibers as a guide for rotation of the optical fibers in the state of placing the optical fiber exposed parts 31 in the V-grooves 11. An optical fiber-retaining base plate 40 is thereafter provided on the optical fiber exposed parts 31 and the polarization plane-maintaining optical fibers 30 are fixed by a resin type adhesive 60.

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